

- Membrane for gas mixt. sepn. - consists of plane porous sheets with sloped ribs increasing oxygen content of permeate.

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AN 1992-405786 [49] WPINDEX

DNC C1992-180322

DC A88 J01

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PA (BALA-R) BALASHIKHA CRYOGENIC ENG SCI PRODN ASSOC

CYC 1

PI SU 1701358 A1 19911230 (199249)* 3p

ADT SU 1701358 A1 SU 1989-4732926 19890830

PRAI SU 1989-4732926 19890830

AN 1992-405786 [49] WPINDEX

AB SU 1701358 A UPAB: 19931116

The element comprises two semi-permeable membranes (5) and two porous drain sheets (2) with plane contact surfaces and rows of parallel ribs (3) on the opposed sides. To increase the selectivity, the ribs are sloped relative to the sheet plane of symmetry.

Preferably, the ribs are parallel with the diagonal of the rectangular element (1) or at an angle $\phi = \arctan(R-r)/(a-r)$ to the axis of the truncated cone element, where R is the element and r is the collector radius, and a is the distance from the edge of the centre of the element. Flow hole (4) for the mixture (6) decreases the drainage aerodynamic resistance. The 500 x 300 mm membrane element has PVTMS (sic) membranes and milplast sheets. The air input pressure is 1 atmos. and the air mixture pressure on the permeate side is 0.3 or 0.2 atmospheres. The maximum separation factor is 3.45 at 0.3 atm.

USE/ADVANTAGE - Used in chemical, petrochemical industries, etc. for semi-permeable membrane cleaning of gaseous mixts. The design decreases the drainage aerodynamic resistance. Bul.48/30.12.91
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